CAiCE to InRoads Command Equivalents

Viewing Commands		
CAiCE	**InRoads**	**Comments**
View => Points	Geometry => View Geometry => Horizontal Annotation … Annotate - Points	Annotates any COGO point. The Active Style sets Point, N,E, Elev., Description
View => Geometry Chain	Geometry => View Geometry => Horizontal Annotation … Annotate - Elements	
View => Survey Chain	Geometry => View Geometry => Active Horizontal	Views Active Horizontal and Vertical Alignments
View => DTM	Surface => View Surface	View Perimeter, Triangles, Contours, Features, Slope Vectors, Annotates DTM Elevations
View => Geometry => Points with Comments and Remarks	Geometry => View Geometry => Horizontal Annotation => Active Styles tab: Styles…	Set Description on
View => Geometry => Lines	Geometry => View Geometry => Horizontal Annotation => Active Styles tab: Styles…	Select Lines from the Type dropdown list
View => Geometry => Curves	Geometry => View Geometry => Horizontal Annotation => Active Styles tab: Styles…	Select Arcs or Spirals from the Type dropdown list
View => Geometry => Chain Points	Geometry => View Geometry => Horizontal Annotation => Annotate - Points	When Points are set on they will display when viewing active alignments
View => Geometry => Chains including Points	Geometry => View Geometry => Horizontal Annotation => Annotate - Points	When Points are set on they will display when viewing active alignments
View => DTM => Triangles	Surface => View Surface => Triangles	
View => DTM => Surface	Surface => View Surface => Features	
View => DTM => Surface as a Rendered Surface	MicroStation: Utilities => Render	Any Triangles displayed will render Smooth, Constant, Phong
View => DTM => Contours	Surface => View Surface => Contours	
View => DTM => Filled Triangles by Slope Table	Surface => View Surface => Slope Vectors	
View => DTM => Points	Surface => View Surface => Features	

View => DTM => Breaklines	Surface => View Surface => Features	Features are defined as Regular Point ,Breaklines, Interior or Exterior line types
View => DTM => Boundary	Surface => View Surface => Perimeter	
View => DTM => Clip Boundary	Surface => Triangulate Surface	Will use the exterior boundary limits defined. You can make edits in MicroStation graphics to the Exterior boundary and reload to make changes
View => DTM => Drainage => Runoff Arrows	Surface => View Surface => Slope Vectors	
View => DTM => Drainage => Water Flow Path	Evaluation => Hydrology and Hydraulics => Trickle	Make sure you have Application Add-in turned on for Hydrology and Hydraulics
View => DTM => Drainage => Water Flow Model	Evaluation => Hydrology and Hydraulics => Pass Through Contours	Will also show flat areas, valleys and ridges, tributaries, compute pond volumes, and display source areas
View => Profile => Terrain Profile => On Profile Sheet	Evaluation => Profile => Create Profile	
View => Profile => Points on Profile Sheets	Evaluation => Profile => Create Profile- Features turned on	You can filter which type of points to display
View => Profile => Survey Chains on Profile Sheets	Geometry => View Geometry => Active Vertical or Vertical Annotation…	

Point Commands

CAiCE	InRoads	Comments
Geometry => Points => Store/Edit	Geometry => COGO Points => New… or Edit…	
Geometry => Points => Store Edit => Rename	Geometry => Utilities => Assign Names	
Geometry => Points => Delete	Geometry => COGO Points => Delete	Points belonging to a figure can not be deleted until the figure/alignment has been deleted
Geometry => Points => Copy	Geometry => COGO Points => Copy	
Geometry => Points => Transform	Geometry => Utilities => Transform	
Geometry => Points => Describe	Geometry => Review Geometry Points Report… button	

Geometry => Points => Annotate	Geometry => View Geometry => Horizontal Annotation	Make sure points are turned on.
Geometry => Points => Store Points from Curve	Geometry => Utilities => Assign Names	COGO points are stored automatically unless input using PI method then you can assign a COGO point number to them
Geometry => Points => Locate Bearing Distance from Point	Geometry => Locate => Intersection => Type	Can be point, bearing, station, distance, or alignment or any combination
Geometry => Points => Locate Angle Distance from Point	Geometry => Locate => Intersection	Use the Type dropdown command
Geometry => Points => Locate at Station Offset	Geometry => Locate => Intersection	Use the Type dropdown command
Geometry => Points => Locate at Even Stations	Geometry => Locate => Intersection	Use the Type dropdown command
Geometry => Points => Intersection	Geometry => Locate => Intersection	Use the Type dropdown command
Geometry => Points => Project Points onto Element	Geometry => View Geometry => Station Based/Clearance Annotation	Set to point, and can set interval and annotate as well.
Geometry => Points => Project Chain Points onto Element	Geometry => Horizontal Curve Set => Events… use the Define By field	Set to COGO points – this will also allow setting of number of points to set
Geometry => Points => Tangent Points to Curve	Geometry => Locate => Tangents	
Geometry => Points => Tangency Curve to Curve	Geometry => Locate => Fit Curve	

Curves Commands

CAiCE	InRoads	Comments
Geometry => Curves => Store => Back Tangent Variable Ahead Tangent		
Geometry => Curves => Store => With 1 Known Point	Geometry => Horizontal Element => Add Fixed Curve	
Geometry => Curves => Store => With 2 Known Point	Geometry => Horizontal Element => Add Fixed Curve	
Geometry => Curves => Store => With 3 Known Point	Geometry => Horizontal Element => Add Fixed Curve	
Geometry => Curves => Store => Concentric	Geometry => Horizontal Element => Add Free Curve or Add Floating Curve	

Geometry => Curves => Store => Non-Concentric	Geometry => Traverse => Method to "curved"	Direction type to Chord or radial and curves will be non-tangential
Geometry => Curves => Tangential Fillet Curves	Geometry => Traverse => set Method to "Curved"	Set Direction Type dropdown to Tangential
Geometry => Curves => Best Fit	Geometry => Horizontal Regression => Single or Multi Regression	Make sure you add application add-in for Multiple Horizontal Regression Analysis also have for Vertical regression
Geometry => Curves => Compound	Geometry => Horizontal Curve Set => Define Curve	Use the Define By: dropdown list
Geometry => Curves => Reverse		Any curve can be defined reverse by the plus or minus sign to direction or length, also you can inverse any alignment
Geometry => Curves => Three Centered	Geometry => Utilities => Multicenter Curve	One point, two point or three point curves can be defined.
Geometry => Curves => Cul-de-sac	Geometry => Utilities => Cul-de-sac	
Geometry => Curves => Delete	Geometry => Horizontal Curve Set => Delete PI	Will delete any curve
Geometry => Curves => Copy	Geometry => Horizontal Element => Copy Element	
Geometry => Curves => Transform	Geometry => Utilities => Transform	Can also transpose
Geometry => Curves => Annotate	Geometry => View Geometry => View Horizontal Annotation	
Geometry => Curves => Modify	Geometry => Horizontal Curve Set => Define Curve	Will let you modify any component of the curve data
Geometry => Curves => Transform	Geometry => Utilities => Transform	
Geometry => Curves => Extend	Geometry => Horizontal Element => Add Fixed, Float, or Free Curve	Any of these commands will extend the curve data

Geometry Chain Commands

CAiCE	InRoads	Comments
Geometry => Geometry Chains => Store Edit	Geometry => Horizontal Curve Set => Add PI	Or Geometry => Utilities => Create edit alignments
Geometry => Geometry Chains => Delete	Geometry => Horizontal Curve Set => Delete PI	
Geometry => Geometry Chains => Transform	Geometry => Utilities => Transform	

Geometry => Geometry Chains => Describe	Geometry => Review Geometry…	
Geometry => Geometry Chains => Annotate	Geometry => View Geometry => Horizontal Annotation	
Geometry => Geometry Chains => Stake Out	Geometry => View Geometry => Station Base/Clearance Annotation	
Geometry => Geometry Chains => Store Offset Parallel Chain	Geometry => Utilities => Parallel Horizontal by Station or by Station	Also for vertical elements or stations
Geometry => Geometry Chains => Copy from Survey Chain	Geometry => Copy Geometry	Can also right mouse click in geometry area and copy, rename, create or delete
Geometry => Geometry Chains => Compute Street Intersection Offset Chains	Geometry => Utilities => Multicenter Curve	Can specify the offset width from 2 alignments for 1,2 or 3 center curve
Geometry => Geometry Chains => Insert Station Equation	Geometry => Horizontal Curve Set => Stationing select the New… button	Will add any station equation which must start with an alpha letter.
Geometry => Geometry Chains => Edit Horizontal Alignment	Geometry => Horizontal Curve Set	You can add, insert delete, or move any point horizontal or vertical
Geometry => Geometry Chains => Best Fit Alignment	Geometry => Horizontal Regression	Single or Multi, Horizontal or Vertical
Geometry => Geometry Chains => Edit Super Elevation for Alignment	Modeler => Superelevation => Build Transitions	Any component in superelevation may be edited and saved to ASCII

Survey Chain Commands

CAiCE	InRoads	Comments
Geometry => Survey Chains => Store/Edit	Surface => Design Surface => Place Feature or Surface => Edit Surface	The DTM's are comprised of features , which can be added, edited, designed and reported on
Geometry => Advanced Survey Chain Editor	Surface => Feature => Features Properties	
Geometry => Survey Chains => Copy	Surface => Edit Surface => Copy Single Feature	
Geometry => Survey Chains => Delete	Surface => Edit Surface => Delete Feature	
Geometry => Survey Chains => Transform	Surface => Edit Surface => Transform Surface	
Geometry => Survey Chains => Describe		A description field exist in any feature created in the DTM

Geometry => Survey Chains = => Annotate	Surface => View Surface => Annotate Feature	
Geometry => Survey Chains => Store Offset Parallel Chain	Surface => Edit Surface => Copy Single Feature	Specify the offset
Geometry => Survey Chains => Resolve Survey Chain Crossings	Surface => View Surface => Crossing Segments	Also mismatched elevations
Geometry => Survey Chains => Combine Two Chains	Surface => Edit Surface => Join Features	
Geometry => Survey Chains => Break One Chain into Two	Surface => Edit Surface => Partial Delete or Break Feature	
Geometry => Survey Chains => Subdivide with Chain	Surface => Edit Surface => Divide Feature	

Miscellaneous Commands

CAiCE	InRoads	Comments
Geometry => Lines => Store/Edit	Geometry => Utilities => Create/Edit Alignments by COGO Points	Creates or edits COGO points in a Figure Alignment
Geometry => Lines => Delete	Geometry => Delete Geometry use the Type dropdown	Deletes any Project, Horizontal Alignment, Vertical Alignment, Superelevation
Redo Undo Graphics	MicroStation => Edit => Undo	
Rename Points	Geometry => Utilities => Assign Names	Renames COGO points assigned to alignments
Rename Chains	Geometry => Rename Geometry use the Type dropdown	Renames Projects, Horizontal Alignments, Vertical Alignments, Superelevations